

Application No.: 10/761,984

Docket No.: JCLA11903

AMENDMENT

In The Claims:

Please amend the claims as follows:

Claims 1-3 (canceled)

Claim 4. (currently amended) A linear tuning varactor circuit, comprising:
a plurality of single-end varactor circuits, each having a tuning terminal and a reference voltage terminal, the single-end varactor circuits coupled in series, a tuning terminal of a first single-end varactor circuit adapted to receive a tuning voltage for tuning a capacitance of the varactor circuit, a reference voltage terminal of a last single-end varactor circuit adapted to receive a reference voltage as a reference level; and
a voltage divider, having a first terminal, a plurality of voltage dividing terminals and a second terminal, the first terminal coupled to the tuning terminal of the first single-end varactor circuit, the second terminal coupled to the reference voltage terminal of the last single-end varactor circuit, wherein the voltage dividing terminals of the voltage divider are coupled to nodes of the single-end varactor circuits, and each of the voltage dividing terminals has a divided voltage, which results from dividing a voltage difference between the tuning voltage and the reference voltage by the voltage divider with a pre-set voltage dividing ratio.

Application No.: 10/761,984**Docket No.: JCLA11903**

Claim 5. (original) The linear tuning varactor circuit of claim 4, wherein the single-end varactor circuits further comprise connecting terminals, a connecting terminal of a second single-end varactor circuit is coupled to the reference voltage terminal of the first single-end varactor circuit, a reference voltage terminal of the second single-end varactor circuit is coupled to a connecting terminal of a third single-end varactor circuit, and the others follow a connection similar thereto.

Claim 6. (original) The linear tuning varactor circuit of claim 5, wherein, except for the first single-end varactor circuit, the tuning terminals of the single-end varactor circuits are coupled to the voltage dividing terminals of the voltage divider.

Claim 7. (original) The linear tuning varactor circuit of claim 4, wherein the voltage divider further comprises a plurality of resistors coupled in series, a terminal of a first resistors is coupled to the first terminal, a terminal of a last resistor is coupled to the second terminal, and nodes of resistors are to the voltage dividing terminals.

Claims 8-20 (canceled)